

PATENT COOPERATION TREATY

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INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 2825.1016003	FOR FURTHER ACTION see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.	
International application No. PCT/US 00/08069	International filing date (day/month/year) 27/03/2000	(Earliest) Priority Date (day/month/year) 26/03/1999
Applicant WHITEHEAD INSTITUTE FOR BIOMEDICAL RESEARCH		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 3 sheets.

It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

- a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.
- the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).
- b. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, the international search was carried out on the basis of the sequence listing :
- contained in the international application in written form.
- filed together with the international application in computer readable form.
- furnished subsequently to this Authority in written form.
- furnished subsequently to this Authority in computer readable form.
- the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
- the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished

2. Certain claims were found unsearchable (See Box I).

3. Unity of invention is lacking (see Box II).

4. With regard to the **title**,

- the text is approved as submitted by the applicant.
- the text has been established by this Authority to read as follows:

5. With regard to the **abstract**,

- the text is approved as submitted by the applicant.
- the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. The figure of the **drawings** to be published with the abstract is Figure No.

- as suggested by the applicant.
- because the applicant failed to suggest a figure.
- because this figure better characterizes the invention.

6

None of the figures.

INTERNATIONAL SEARCH REPORT

International Application No
PCT/US 00/08069

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 C12Q1/68

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 C12Q

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, MEDLINE, CHEM ABS Data, EMBASE, BIOSIS

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 93 25563 A (HOPE CITY ;WALLACE ROBERT BRUCE (US)) 23 December 1993 (1993-12-23) the whole document ---	1-40
X	WO 97 31256 A (BLOK HERMAN ;BARANY GEORGE (US); KEMPE MARIA (US); ZIRVI MONIB (US)) 28 August 1997 (1997-08-28) the whole document ---	1,2
Y	---	3-40
Y	PASTINEN T ET AL: "MINISEQUENCING: A SPECIFIC TOOL FOR DNA ANALYSIS AND DIAGNOSTICS ONOLIGONUCLEOTIDE ARRAYS" GENOME RESEARCH, US, COLD SPRING HARBOR LABORATORY PRESS, vol. 7, no. 6, 1 June 1997 (1997-06-01), pages 606-614, XP000699761 ISSN: 1088-9051 the whole document ---	3-40
		-/-

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

° Special categories of cited documents :

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *&* document member of the same patent family

Date of the actual completion of the international search

24 January 2001

Date of mailing of the international search report

05/02/2001

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INTERNATIONAL SEARCH REPORT

International Application No

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	EP 0 799 897 A (AFFYMETRIX INC) 8 October 1997 (1997-10-08) the whole document ---	
A	EP 0 416 817 A (ICI PLC) 13 March 1991 (1991-03-13) the whole document ---	
A	GB 2 312 747 A (ZENECA LTD) 5 November 1997 (1997-11-05) the whole document ---	
A	US 5 710 028 A (NAVOT NIR ET AL) 20 January 1998 (1998-01-20) the whole document ---	
A	WO 96 41011 A (SPECTRAGEN INC) 19 December 1996 (1996-12-19) the whole document ---	
A	WO 96 41012 A (GENZYME CORP ;SHUBER ANTHONY P (US)) 19 December 1996 (1996-12-19) the whole document ---	
A	WO 97 35033 A (MOLECULAR TOOL INC) 25 September 1997 (1997-09-25) the whole document ---	
A	WO 98 44152 A (FARINELLI LAURENT ;MAYER PASCAL (CH); KAWASHIMA ERIC H (CH); GLAXO) 8 October 1998 (1998-10-08) the whole document ---	
E	WO 00 47767 A (GIBSON NEIL JAMES ;LITTLE STEPHEN (GB); ASTRAZENECA UK LTD (GB); W) 17 August 2000 (2000-08-17) the whole document ---	1-40
T	HIRSCHHORN JOEL N ET AL: "SBE-TAGS: An array-based method for efficient single-nucleotide polymorphism genotyping." PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES, vol. 97, no. 22, 24 October 2000 (2000-10-24), pages 12164-12169, XP002158215 October 24, 2000 ISSN: 0027-8424 the whole document -----	

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/US 00/08069

Patent document cited in search report	Publication date	Patent family member(s)			Publication date
WO 9325563	A 23-12-1993	CA 2115342 A	AU 674127 B	AU 2251192 A	23-12-1993 12-12-1996 04-01-1994
		EP 0607151 A	JP 6509946 T	US 5981176 A	27-07-1994 10-11-1994 09-11-1999
WO 9731256	A 28-08-1997	AU 2799797 A	CA 2244891 A	EP 0920440 A	10-09-1997 28-08-1997 09-06-1999
EP 0799897	A 08-10-1997	NONE			
EP 0416817	A 13-03-1991	AT 144290 T	AU 622349 B	AU 6118490 A	15-11-1996 02-04-1992 14-03-1991
		DE 69028891 D	DE 69028891 T	GB 2235689 A, B	21-11-1996 13-03-1997 13-03-1991
		JP 3272686 A	NZ 235015 A	US 5525494 A	04-12-1991 26-03-1992 11-06-1996
GB 2312747	A 05-11-1997	AU 2704997 A	EP 0896630 A	WO 9742345 A	26-11-1997 17-02-1999 13-11-1997
		JP 2000510337 T			15-08-2000
US 5710028	A 20-01-1998	IL 102382 A	IL 111267 A	AU 4770393 A	04-08-1996 14-07-1999 31-01-1994
		EP 0648222 A	FI 946127 A	EP 0648222 A	19-04-1995 20-02-1995
		IL 106199 A	JP 8507198 T	FI 946127 A	24-09-1998 06-08-1996
		NO 945100 A	WO 9401447 A	WO 9401447 A	22-02-1995 20-01-1994
		US 5650277 A		US 5650277 A	22-07-1997
WO 9641011	A 19-12-1996	US 5635400 A	AU 718357 B	AU 6102096 A	03-06-1997 13-04-2000 30-12-1996
		CA 2222581 A	CN 1193357 A	CZ 9703926 A	19-12-1996 16-09-1998 17-06-1998
		EP 0832287 A	HU 9900910 A	EP 0832287 A	01-04-1998 28-07-1999
		JP 11507528 T	JP 11507528 T	JP 11507528 T	06-07-1999
		NO 975744 A	PL 324000 A	NO 975744 A	05-02-1998 27-04-1998
		AU 712929 B	AU 4277896 A	AU 712929 B	18-11-1999 06-05-1996
		AU 7717596 A	CZ 9700866 A	AU 7717596 A	30-04-1997 17-09-1997
		EP 0793718 A	EP 0931165 A	EP 0793718 A	10-09-1997 28-07-1999
		FI 971473 A	JP 10507357 T	FI 971473 A	04-06-1997 21-07-1998

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/US 00/08069

Patent document cited in search report	Publication date	Patent family member(s)		Publication date
WO 9641011 A		NO WO	971644 A 9713877 A	02-06-1997 17-04-1997
WO 9641012 A	19-12-1996	US AU AU CA EP JP	5882856 A 703417 B 6163696 A 2223729 A 0832290 A 11507226 T	16-03-1999 25-03-1999 30-12-1996 19-12-1996 01-04-1998 29-06-1999
WO 9735033 A	25-09-1997	AU	2320597 A	10-10-1997
WO 9844152 A	08-10-1998	AU AU EP EP WO	6846698 A 6846798 A 0972081 A 0975802 A 9844151 A	22-10-1998 22-10-1998 19-01-2000 02-02-2000 08-10-1998
WO 0047767 A	17-08-2000	AU	2309700 A	29-08-2000